

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

9-133

IX

H. Shadoff

Va + Ws. returned

8/7/42

IX

1942

43,560 2012

4,840 yds "

Cu yds to tons = X 1.5

N.E. Tenn.

Va.

W. Va.

A.R.

SW Ark

Mn

Tray -

15 cu ft per long ton for

15%

12 " " " " " 40% of

Misc. notes

Cent. Region

SW Ark

15 cu. ft. per long ton for 15 cu.

7.2 " " " " " " 40%+

7

Miss notes

Cent. Region

Dismal Cr. pros pits - - - - - 55
 Silver Cr. Mn. Cu - - - - - 56
 Pearis Thompson Hollow - - - - - 56
 Roll 2 - Central Region - Misc - - 58
 Little Rock - - - - - 64
 Hc Mt., - Manganese - SW Ark - 65

TENN.

March 29 - Sunday Stoney Cr. Valley

278

Taylor Ridge - one of Browning's properties
 Mr. Taylor in 1922 - shipped 26 cars.
 8-800 in addition off our property

TENN.

March 29 - Sunday Stony Cr Valley

278

Taylor Ridge - one of Browning's properties

- Mr Taylor - 426 - 26 acre.

8-800 in. in addition off own property

- main pit & 2nd pit - some iron below

iron ore - no other good ore near pit

- scattered hematite in ground near pit

- upper to - low grade - much
dolomite gty in ore - shakedown

- high alumina & silica? - some iron

- apparently low near base of ridge was

the start with the underlying breccia etc

- one lower brown shale (not red enough

to be hematite) - some iron

hematite - nodular - some iron

hematite - some iron - some iron

hematite for analysis.

- Very little good ore in this area & few

does not seem to carry a deposit

No iron for hematite - some iron

the iron ore - mostly hematite

(if that says 1000 ton per acre)

1000 ton would be better to get iron

ore - slope steep to crest & slope

will be steeply sloped - some

iron ore - some iron ore

The dip is another sort of study

uncommon - some iron ore

In summary - some iron ore

one of Stony Creek valley [to be of some

interest]

Kippe Ridge (No. 1) - just past
 of drill hole - depth up to 30 ft -
 - very little getting. Very little ore now to
 be seen + most of this is sandy. Reports of
 ore also and drilling claim great thickness
 of ore but according to Kippe and young men
 penetrate same. Kippe is also in good
 & much of ore known to Ferguson or
 Kippe. Acc Mr Ward complete records
 are not available - only drillers logs
 - doubt all in year ago. Impossible
 to make any estimate of tonnage or
 check Ward's findings (Ward estimated
 4-5,000 tons)

3500 - 4000 tons	{	Blue Spring	—	500 tons or less
		Mitch Ridge	—	2000 - 2500
		Ritter Ridge	—	0 - 0
		Taylor Ridge	—	2000
		Kippe Ridge	—	0 - or little
		Donnell	—	not sure not prospect
		Bliss	—	300 tons - produced, may be some more

- 15,000 tons possible in valley acc Ward
 - probably about 1/5 (3000) tons of ore

March 30 - Mon

Embree Iron Co

5000 tons - iron

3000 tons - pig tailings

material estimate 20,000 - 25,000 tons

in ground (same amount on
already purchased)

Apr. 13 - Mon.

Traynham Prospect

Shipped 30 tons to Larnes. Last
week - well put - there is but one

- have put on 6,000 in work to date

- recommended continuation of trenching

- in first trench - 55' long - average
5' depth - 25' ore of 4" thick -
bank floor lower work

- 2-4' overburden in average corner little
ore - under it country rock
may be very much like & with
Mn. content

- to take chemical sample for analysis

- make map of all areas &
with ore & overburden

- have put down two new excas. to NE of main prospect area - one of them nearer to main area is in talus - other - lying $\frac{1}{4}$ mi to from T-trench is in flats behind (NW of) Db flatiron.

U & Db

Note -

- latest est. of Baker reserve - 3000 tons
- at Fandrea track DH 14 - fair ore at 20 - 40' (no analysis yet) - covered at 31' still in clay

Baker Land -

- descended pit in JH 3 to bottom at 68' (total depth hole 85')
- very poor show - ore to add 3 other depths
- DH 5-6-7-8 + pit 8 to present

Harry S. Morrie }
Frank C. Ripley }
O. E. Thorne }

Swat Spring Mine

Oscar O'Connell (O'Conner?) w/ Sul. } collected
Birmingham, Marlinton }
Covey } W Va. 5

Lower
Linton

last section in Linton tract
near point A for two
weeks in fall - got 1 layer
#100

- nodules are better than
analyzer (which shows 5% SO_2)
- has shown up. Center is plus
down the patches all with
reverse dips like that in
gully - the dips are probably
very small - not over a
car at most.

Apr 14

Tue

Went to Johnson City - with River, Long
Pond, Ferguson, Rodgers & Craig.

Apr 14

Tue

Mt. at Johnson City - with Walter Long, Pond, Benjamin, Rodgers & Craig. To see Erwin - Shady contact along Stony Creek.

Returned to Middle Ridge for re-examination of prospect excavation. Discussed plan to have B.M. more - to put down four holes (pits & shaft) on this prospect + Bear Wallow + Blum. (This in conjunction with plan to establish E. Tinn. Shale pit near Pleasanton. Pond road with Bureau.

Chert M. To det. M. 11. + 12

Apr. 15

Wed.

To Sweetwater, Tenn. - to office of W. E. Michael, Fred Leake interested in Vida Mine - Michael has option - also interested in McGowan Mine - work operating + developing lease from C. P. B. (Michael as atty represents owner of Heiskell Mine on to south) -

- saw sample Henshawite
- Fred. J. Fuller - with Michael & Leake

To Vida Mine - saw some good stuff - 3' bed with 1/2" to 1" yellow clay - brown from below - some with shaggy stuff (see spec in file 16 of 122-54 - 3' bed) - all Fe 20 down in 1' bed - clay 6

(North & South Mine)

- deposit one dump weighing good 100 lb.
- no recent prospecting & no very good records of past activities. If any loan in made should be for development only at start (Pond) - note that there is little float or even on dumps & recent past taken - claim nation carry it away - but near pit put down several years ago there is good concentration of large blocks of Fe + Mn.

- on to N part outcrops of Holston & "tellus" - red gully where we excavated numerous pieces of good ore - largest piece weighing 40 lb ±. - still on Vida property.

- on to N part gully - here same red clay but no lumps Mn. - ore to Rodgers ore zone probably in (was) above is - big mass Holston.

- good area for B&B some chum drill? - water supply adequate for washer - could try by drawing.
- see spec. - one of which contains carbon presumably left by removal of Mn. carbon.

- above corner 2 pits on Vida - now to go to Vida pit still for Mn.

- take red gullies with drift Mn & Fe float - heavy mass dominantly on the other

280

not M - have more - some M in Holston
marble - some "Tolles" - no carbonate
seen in rock with M. as, see - see
Bos - Boulder for photo, etc. - see
in spec. min in ls. - one with
small vein - in rounded in from
weathered material not fresh mat. and
at the

at the Mc Lane mine some M
and some marble - some some - on the
"Tolles" - the structure in the
marble of the "Tolles" of Rodgers -
Tolles in rock by itself.

- near wall end of Mc Lane project
by 7 ft in red dirt - good
M - biggest lumps 1' in diameter
along with some very small - much
good iron first seen in the hole in
NW side - one more 2 1/2' long
+ weighing 200 ± lbs - pit yielded
1/2 ton or more of ore = 3 yds. or less

- M can be used as a good
B M project for steel, bridges and
etc - iron could be produced as a
by-product

Gate continues at intervals just E NW
of creek - some are good in one
last described - are now well into
V. to track at point N55W² of the same
mine - some men in pits on
mine side of creek - near summit

Apr. 16 - Thurs.

To old iron pit of the old mine - near
Haskell mine - Pick ore on all sides

- to Main pit & abandoned workings of
Haskell mine - extensive bryozoan marble
locally with numerous oriented shingles
cephalopods - just sand & show on
beds 100-200 yds - exact depth unknown
- but at least 36' below original ground
surface - and dirt shows much
from ore - worked easily
- on to "Lost Mine" pit of Michael
- on to S & S. N.E. pit - some work done here
by Michael - some stone to dry mine
mine - hematite lumps common
- small pieces are all iron
- on to North pit - not sure if the
produced some ore

- in PM to S end of V. de property -
some set up on the line but
mine - no prospecting

in to South Side pit - no good min. float;
apparently worked for iron.

Plans for B.M.

1) Start near Mc Ginn mine + hill to
NW. by shaft, trenches + pits - may prove
10,000 tons

- Apr. 17 - Fri - Marion Area - Glade Mt. Corp.
- 5 mi. E. to Cedar Springs; to R. 2
mi. on Va. 622; to L, cross
Nick's Creek + go 5 miles to mine.
 - are in Kellum's Creek in Shady
area near^W top of a stream on current
map -
 - some hand picked software - have
shipped 20 cars running 45-58
- deposit opened 4 years ago.
 - in 1938 Dixon, ^{W.T.} shipped 6 cars
 - later, Sayers, E.O. " 12 "
 - cars ramp up to 51 qts - all above
43 qts. - now shipping to Lenoir
 - The deposit + ore in current valley to
SW are only 2 now active in
this area - others not now being worked
 - schistose dol. (like Lenoirville) in
min. cap is top of cut
 - have mineral right to 5000 10

to which govt owns timber & sawp
have prospect maps (Dixon has
copy & will loan - no market
for mn-Fx on acct. freight
rate to Birmingham

-- loan 4600 acres in Coconino valley

281

{ - have determination made of white mineral
made & send to Dixon - man in
silo - Dixon. found it may be
phosphatic - it will be property
- just nearly 300 yds from mine pit

- have projected total width nearly
600 yds

- suggested tailing run 40 ft - but
and up to 15% silica - gas follows
later

- Visited Wm's prospect - in on Shady
in per HDM - Coconino mts. to country
black siliceous gty in dumps - state
of beds below - some fairly recent
work has been done - good nodules
on - quite under 7' to over 10'
- also open cuts measuring 100' x
40 x 0-20' - much nodules on
- one car taken out in 1939 - must
not start up on

Kline estimate
of 45% Mn.

6,300 tons conc. - probably on W saddle
971 " " = possible " - Dam
1236 " " = " " - trench 7

8,507 " "

May 1 - Fri

- Red Mt. - much of newly discovered
ore is very fine + hard - have felt
that material assays better than
one would suppose. There appear
to be heavy losses in milling -
all of soft ore plus large amount
not contained in badly jagged
ore - fairly fine rock
- Intend to join Robertson at
Red Mt + to be in charge
- B.M. to keep going on
holds ore - trench 7 near "Z" looks good

- In P.M. in Curran Valley to Curran Valley
Mine - operated Staley Creek Iron +
min co during last war - reopened
2 weeks ago by Dixon + Block
and now at the time of the

- not contained in many jagged
 on - take one each
 - Succeeded to join Robertson Rd
 Rd M + to be in charge
 - B.M. to keep going on long on
 holds out - trench 7 near "Z" looks good

- In P.M. in Curran Valley to Curran Valley
 Mine - opened Staley Creek Drift +
 mine co. during last war - reopened
 2 weeks ago by Dixon + Block
 M. crowd - said to have shipped
 1 car min. per day (+ 4-6 of iron
 during last war - one good in pl.
 but other intimately mixed with
 iron
 - Shipped 1 car from Beacon Br
 2 miles beyond here - ran 49%
 + moisture, iron, + silver ran less
 than 3% each

May 1
 sec
 11a
 above

May 2 - Sat

Lynchburg Area

1) Bell property - several miles SW of
 city on US 29 - on hill + north. Mine
 seam 6' ± wide - in weathered shale - not
 g. 1/2 shot + shot from - shale
 now all worked - sold locally - 5' shot
 with shot pattern visible - other shale
 shale - all sand to be in section
 standing all day



- Harker - fold +
 (small) dip -
 134° E - full day

- shot exp - N 33 E,
 95° - SE

2) Saunders property - on E. Spr - back of lot (Wood & O'Hara property closely) - turn R on Va. 24.
 Wood { - weathered schist N30±E & S
 - shafts - 1-3 on core - not much ore to be seen - schist very soft - micaceous

Saunders - big piece - many pits & shafts - drifts - some very recent - weathered schist - lower ✓ (55±) ESE
 - some very siliceous ore - some mottled - this the best - Big core bulb layer across strike & later ore zone along strike - possibly using diamond drill later to test depth - footwall of 7 ft schist - N38E, 68SE - Saunders property runs 3-4 miles along strike - property has probably produced several thousand tons thru long period - to trend across strike at intervals of several hundred feet - then along strike - then drill to determine depth, 6 zones 2-300' wide - has old mine - some limestone spots?

3) Buckman Mine - E of Lynchburg
 - 2 old shafts (Oxford & Josephine)
 200' apart - 3 levels (80, 100, 200)
 - but one body that crosses
 strike - Boy to drill diam
 drill hole at 650' & but one
 - now caved - worked during
 last war

Oxford shaft in mouth of fault
 - good ore - clay
 between mouth & clay
 - 2 shafts N60E±
 - strike of outcrop in pit
 near Oxford shaft - N30E±
 with NW dip

shaft
 150'±
 clay
 mouth
 shaft

4) Catell - Bingley Property NE of
 Lynchburg (out on 29 A near Langston,
 turn SE than Shipman)
 old. low. open Catell pit - not
 very rich. many small sub-
 spern. iron pieces
 - said to be 100' ft



4a) looked over Bingley tract -
 numerous old pits, some
 much exposed. B19 - 9 pits
 bottom Mn-heavy clay

May 24 - Sunday

Johnson City, Tenn. To Bumpass Cove
area to see East Baptist Hollow
pit and West Ore Bank pit. Not
much min. remains at former
place - saw one piece far on +
considerable used. At West Ore
Bank some good ore can still be
found in place. This includes
areas of soft "Mud" & some
hard cavernous psilomelan - big
cellular masses in which canals
are filled with clay. (Did not
visit West Baptist Hollow mine
or Madcaps just nearby)

May 25 - Monday

To see Will's new prospect at
Chilhowee - going via Mt. City +
Dumarsac

above p. on Mt. of Iron Mt. on the right side
are shaly bed. - good nodular
psilomelan in brown clay - up to 1' ±
- 5-6' on heavy clay reported - would
be very easy to wash - have just done
shallow trench + large hole
- on Chestnut Ridge - lower of
the group (will's prospect) - the
min. is very rich (50 tons)

Atom figure may be 510-1000
Time - not proved but probable.
- to cite larger figure in letter to
Nelson re engagement. May be
1000. To be built layer to
cross road. Well - just down
cut from bottom of bulldozer
track. of masonry.

- one large core has actually been tested
by p.H.
- Red clay 3' underlain by yellow clay
to which the test hole

from top of hill - put down
pit from bottom of hill layer
traces of ...

- no large ... have actually been tested
2 pits.
- Red clay 3'± underlain by yellow clay
for several feet. In two holes
got thru this yellow into darker
material with fine iron. Red dirt
seems to have ...
may be mixed ... yellow
clay probably from ...
... in yellow ...
in upper level is (red) ...
... Ridge No 1

Check Ridge # 2 - about 6'± W -
a red clay - one ... good ...
... + ...
... none of ...
... 3'±
(above)

In evening in Marion had visit
with H. Frank Peery who owns
property on Chestnut Ridge near (W?)
of Barker Garden. Has opened
old shaft put down ... years
ago & found good pyrolusite (?)
in ss. - on near surface sandy
wants examination. gave Steel
address & will write Steel re
call.

May 26

Tues

Glade Mt. Men - are using bull
dozer to open up higher slopes to
E. - finding high grade pyroclastic
+ siliceous pyroclastic - have
already shipped one truck load to
Singapore - very pretty + probably
close to contact with "transition beds"
On W side of main pit transition
beds with glauconitic clay far
at base of excavation. (There do
not appear to be top of Pleist. deposit)
- below small ramp there are
exposures of "breccia" that does
appear to be a young deposit.
(H.D.M. questions glauconitic
relationships)

- with Wells to gully to E - 1/2 mi E.
- up over P. trans. clay to top
pit - good grade - some with
chert - nodules of pyroclastic
- see. to rept. washed out car
of one some yrs ago on creek
just below pit.

13 mi.
from
Saltville

Saltville area

282a
on road
50+
small
11+ diameter

- Marion to near Chesham - 21 to
Saltville, then on State Rd 91 - over
mt. on Clinton & down NW side to
75' of bottom - over Clinton to
mm. prospected on rd - seen 9
Nat. Metate - very good hard blue
carbonaceous perlite-like with clay
in center - ore in irregular
veins & nodules in soft fracture
ss. with few poor cross-bedding
impression

283

Very dense - just below rd to pit
in soft Clinton ss N-50°E, 70°E
- typical Clinton lithology but all
mm. very low grade

284

on chert - ss flows along rd
below prospect in creek - 11' prospect
may be "black" -

made more dense - analyzed
Nat. Metate 53+ on

- just below prospect on rd in
creek. Don - good for - N 70°E ±
high - less than 100' (75+)
from Don to prospect
f. fork to Tammahatchee just
below - then cross Little
Timberly Creek in Little Valley
- cross Little Top - Clark
Mt. to Mt. - on to 265
- down valley in Clark Mt

- 1 car from below prospect during last war - not with license

- on EDA N65E, 45-50SE for + glauco. chert

284a

- on to upper Clinton - typ. con-
flat nodular masses in ss +
sandy clay - high iron + silica
- on pit along rd - exp along
strike for 150' + glau. red up to
25' - ss in pit along rd -
N50E, 50SE - on rd dips
up to 65 SE.

285

- on lower rd - only 125' from
Clinton to Don - iron + Fe beds

May 27 - Wed.

SW Lowe + J. L. Lowe - 2 mi SE
Rutledge Tenn. Out of Rutledge
on State Rd. 91? to turn to L at
1/2 mi E. Up hill - on divide to
Lowe house - back over old rd
to pits. Coll. one for Purser for Co.
all mining done at one place
- some shipped - on weather
- some high in Fe. Rutledge

stopped by end of fort war. -
scattered on on dings - some
very high in silencing (see map in
Stone & Schrader) - on creek small
ridge. J.S. Swan had
been - now shared by Mrs. Low
+ 5 children. No activity here or
in the immediate region since 1918.
- no large stream nearby.

May 28 - Thurs.

To East Fork Mm 10 mi ± S E
of Searsville at fork of Stillmaker
at base of Beavertown Mt - park
car + take wagon rd. to L at house
on creek. This leads to north
of 2 workings (excellent desc. in Stone
& Schrader.) This is a hard rock
mine - vein of mixed carbonate
(Mm, Mg, Ca) several feet thick
in Huron slate at contact of
slate + dolomite. Mm carbonate is
gray, fine-grained + heavy - somewhat
difficult to distinguish from mixed
dol. + calc. Parts of ore are heavy
with pyrite. Upper part of ore
vein is altered to Mn. - a
mixture of hard blue pyrochlore
+ soft wad. (note soft green
mineral in some ore.)

Two or 3 conc of ore have

- been shipped from this mine - The last very recently. There is small pile of carbonate & large pile of oxide on loading platform
- oxide we obtained below highest level
 - " may be faulted out above on all highest rocks in dolomite
 - In middle, anthracite hydrocarbon? occurs with quartz - many structures in 2' + 3' beds & several vein systems.
 - have 100 cu ft of oxide on loading platform - H.M. estimate is 12-15 tons.
 - is high in silica & iron - a poor man prospect on whole

South opening of East Fork Mine - excellent coal ore - certainly at contact slate & dol. - have taken out 1600 tons \pm - could probably get out much on 5,000 tons. The spec coal is dull gray - big lumps are dol.

May 29 - Fri.

Sweetwater District

- to B.M. Sugar - McGowan Mine - met Olaf Jensen? - ant. to Newbury
- 3 hrs I dug out by 2 men in 4
- 8 hrs dig near East Vada - 2 lumps are more than 1' in diameter (one is 300 lbs?) 21

Good
dark red
purple
yellowish red - brown

- Shift 1.8 - E - sand first 2' 7'
+ stopped at 10' - sand - 500 yds.
South Trench (East Vider) - sand on all
[has sand drift 5" (sandstone & coral) =
in sand hole but water at 24' 8"]

- Shift N8 - E10 sand good ore ~ 7'
+ stopped at 10 when under rock - 30 ft
with sand (East Valley - inlet on the
[have sand drill 5' (water 6" deep) -
in East hole hit water at 33' 6"]

- N8, E9 - 6 1/2' in ^{dark} barren red dirt
small spherulic masses mostly red
+ probably iron. Only one small
green one

- N8, E12 - 8' - barren purplish
brown - job not completed

- N8, E14 - 7' ± - banded red-brown
+ yellow (cray) - brown clay with
whiter streaks - contains some hematite
(low grade) + some waddy Mn. -
pit is next to outcrop of Tellico
This at edge of old Mc Lane pit

- N8, E14 21 - 22 - all rock water table
some hematite + little iron from 15 - 21 -
hole not completed - dark mottled - Tellico?
some of dark clay in waddy + some fairly
good iron ore - small lumps

200' intervals



N/O E 12 7' 6" - ends in yellow clay
- no lam. - mixed with sand

N/O E 8 16 1/2' - some lumps of shell at 15'
(10 sh. ±) - none at bottom - all dark

N10, E 12, 7'6" - ends in yellow clay
- no lam. - mixed with red

- N4, E8 - 16'6" - some lumps ore at 15'
(10 lb. ±) - none at bottom - all dark
red dirt

- N6, E10 - 19'6" - red dirt underlain by
waddy clay with scattered yellow clay
that is laminated. - probably less
than 10% Mn. in waddy clay. -
few small pieces hematite & 1 of Mn
- dark waddy clay 12 - 19'6" - yellow
on bottom on one side - in center
underlain by red

- N14, E10 - 27' - whitish clay & dark
waddy clay that may carry as much
as 20% Mn. - in water at bottom.

- N4, E6 8'6" dark red dirt, iron

- N6, E8 27' - dark red dirt - barren
except for few lumps Mn

- N6, E6 - 10' - Mn. + Fe - one 8" lump
Mn. - Dark red 0 - 6'; dark brown
6 - 10 - most of ore (46 lb. ±) from
lower half of hole.

- N6, E4 - 5' - Mn & Fe - edge of pit

- N8, E11 8' 6" - dark red dirt with few
pouch hematite & 1 small piece Mn.

- N8, E8 - 9' - ^{dark} red dirt with small
(pea size) Mn - should be washed

- N8, E6 - 3' 6" - Mn & Fe near top
- light Mn = 15 lb ± - in sample
ground at edge of pit?

- N10, E6 5' 6" - Mn & Fe

0 - 10' red dirt - ^{lighter red} - on near base (15" ±)

10' - 14' dark barren

14' - 15' 6" yellow, fine clay-stained
with Mn. From Lamer?
- at base NE ± seen top of
yellow & top of black

N10, E10 25' - barren red & dark dirt

N12, E10 - 15' - dark to lighter red,
practically barren

N12, E8 - 10' 6" - some red & Mn.
- closed over - mostly iron

N12+30' E8 (hard put) - 4' - red
mudstone shaly brown + yellow clay

N16, E10 - 9'6" - dark red dirt
fine ore - wash? - few lumps
from pit.

N12, E12 8'6" - red dirt with fine
min. grading into brown - might
wash.

N16, E12 - 9' - dark red dirt
- little fine min.

N14, E12 - 33' drill hole in red
clay - hot water

N12, E12 - 21' - red dirt - barren

N12, E14 - 24' - dark red dirt, ore
ore

N12, E16 34'6" red clay
black with yellow dirt
hard ls. in bottom
- this "wad" appears
mostly iron

N12 E14 24' barren red
dirt

29.

N10, E14 - 20' 6" - bottom 3' waddy -
rest of hole red

N10, E16 - 10' 6" - red dirt - barren

N12, E18 24'.

0 - 13 red

13 - 22 - brown

22 - 24 yellow, red brown mixed

N14, E18 24' 6"

- bottom 2' good (?) waddy,
rest red clay

N16, E18 - 33'

0 - 17 red

17 - 33 yellow with streaks of
brown (some?)

N18, E18 - 20'

0 - 16' 6" red

16' 6" - 20' - black - may be good waddy

N20, E18 - 17'

0 - 11' 6" black dirt

11' 6" - 17 - mostly yellow

N22, E18 - 7' all red

N22, E16 - 7' - black chert with few
rust to Mn in lode

N20, E14 9' red chert + few nodules Mn
- some yellow in
lowest 2'

N18, E14 8'6" - all red - very little Mn in.

May 30

Saturday
White Oak Mt., Ala

N10 3' - dark. sh. chert, now at and most
partly covered. - opposite side of
road from mine. from
Schroeder

N10 2' + newer trenching - tunnel - in
#4 Payne conoidal chert - very little
Mn. - fine fracture + bedding
planes + partially replaced
chert. Potosi Mn to rock
(from to cu. yds = 1:40 or slightly
better) - trench 75' S80E - HPM
says continuation is better
- next trench to south looks much
richer - HPM estimates 200 tons
concentration in sight - Mn. occurs
exposed in most of 100' trench
to depth 5' ±. Mn. in Mn. aluminum
(lithiophosphate) - a B.M. trenching
project of Co in high 2 - could

- could dig - hand trenches across strata
would give necessary information.
- Trench #3 (S to N) the other two
+ shows least Mn - some Fe - mostly
barren chert - pit near upper end
(E to N) shows little Mn. - very little
 - on E to N - shaft - over 25' deep - barren
 - the tunnel + pit - only 1941 stream
 - " ditch digger trenches in surface
materials - no Mn
 - old chert pit - little good Mn

At 1 area of Jones + Schermer (E to N)
thence NE over saddle to crest, taking
off on spur to R beyond crest.
Large piles (40 tons +) of Mn-chert
stacked + more near old shaft.
Mn veins + filler fractures in
chert + in some instances partially
replace chert. Clasts of Mn more
than 1/4 inch thick are rare but
spongy masses an inch or more
thick do occur. Cavities in the type
of material are filled with clay. In
volume the Mn probably does not
total much over 5% of rock even
in this selected "rich" area.
Two long digger trenches + pits
lie to south of main workings

@ 2 7/8 - 4 1/2 lbs per ton chert
2 7/8 lbs per ton
= 100 per ton @ 3 7/8

(2-3')

These are all shallow, & for the most part
found barren chert - few lenses of iron
brucina.

Rocky Mountain could not get down N30E
trencher across ridge to depth 15-20
ft at 50' intervals - showed 1200-300
ft long

Northridge Mine

87 ore 50% Cleveland on Tenn. Co.
- long trench in Holston sandstone clay
with some outcrop hard rock. Good
ore (like Sweetwater) occurs in
dark dirt carrying yellow shales. Deposit
not exhausted

Nearly a sink in Holston showing
beautiful pinnacles & buttresses &
shale on hard rock.

June 2 - Tues

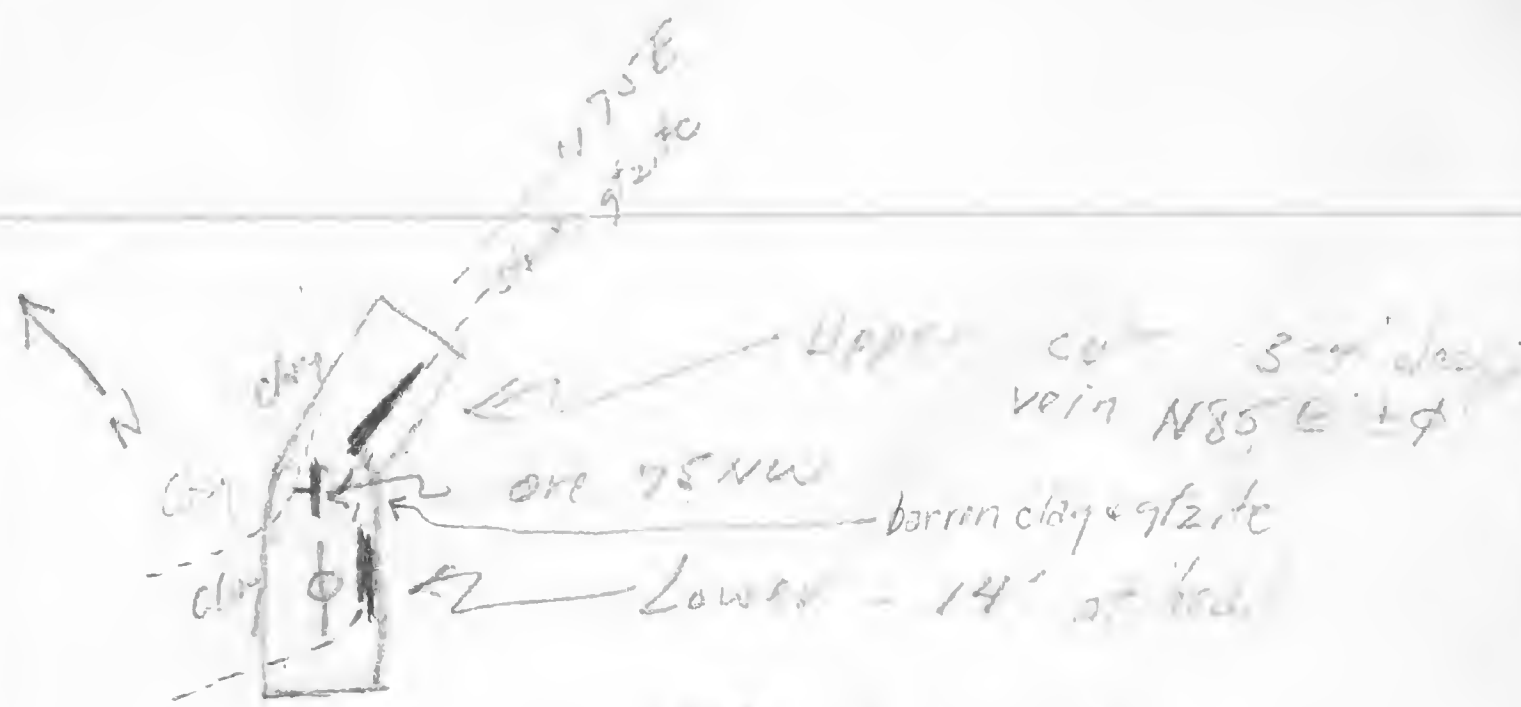
Rock Run Prospect

Thru young Garden to see W. L. Moore &
down to his cut No 1 - see marked map
(Moore has Co analyzer on high in 1190)

One full fracture in massive quartz
N45E, 75E NW

cut 28 x 13 x 14 deep - Lower cut
20 x 11 x 3-4 " - 11 ppn

- deposit high in iron & tellurium
in very small structure appear
complicated - abrupt changes in
strike - rate - "veins" at high
angles



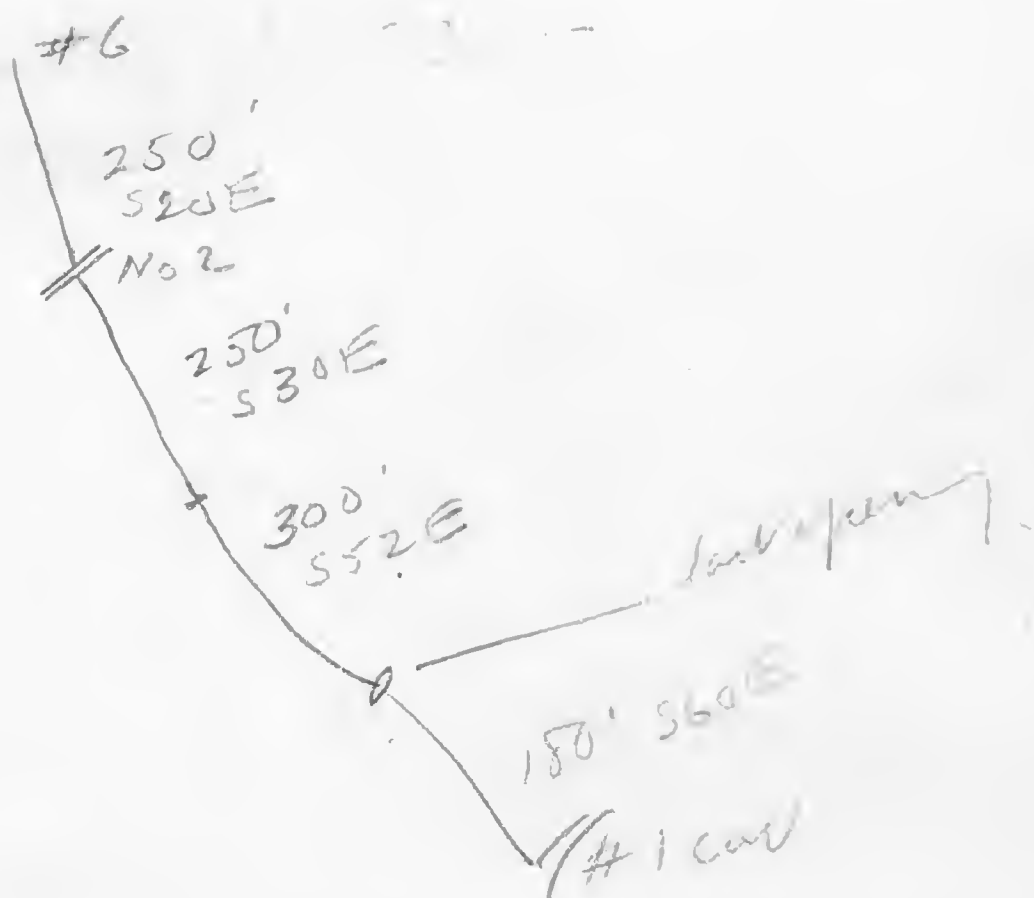
- Mn ore in veins + beds, showing spherical + elongated structure (spec.)
- The cut opened 1937 - only 1300 lbs shipped for him (Foss Mineral Co, Phil.) - incl. about 600 lbs. Mn-Co. mineral

Moore claims vein material runs 10-15' wide - vein ore to concentrate containing 5-6% Co (treated by crushing + washing). There is practically no water so plan is to run + use magnetic separator (for iron).

Vein appears to be in ferrug. gytex due to contact with clay. Clay is pitted + probably faulted

On to No 2 cut, ^{to W} 1000' ± over same ledge forming ss. No. 2 cut shows gytex ledge overlain by clay carrying few nodules Mn. (pyritous? with ferrug. outer shell) - 4-5' clay 3-4' deep + 6-8' wide - nodules do not appear numerous - cut N18E ±

Short trench (No. 6) - 250' - as of
 No 2. - nodular, cherty mm. like
 Shady nodular - low grade probably
 - chert with dolocasts - trench 2 x 3' x
 3' - into hill N 85 E - in left bank
 gently.



N 85 W, S 5 W - as of phyt on beyond No 1 - to E

To some 4 pits 2500' N of cut No 1.
 - good blue mm. in spongy layer in ore
 pit - mm. oxides, rounded pebble-like
 masses of phyt - clay packets give
 ore spongy appearance - a piece
 next to (below) ore core of ss. Then
 ore looks good, but quantity unknown

- 2 main pits 66' away - near Mn only in
one pit - 2 small pits near one
pit show a little Mn. with iron
- on up ridge part iron pit to No 8 pit
which show iron & little Mn (claim
held 2 1/2 tons of Mn. ore in 1939)

Iron Ore Cut No. 3 - on up ridge
(see map) - some very good iron ore
& some Mn. in rock. However
not tested for Co - test iron?
N 70 W, 59 N (?)

W. L. Moore Mining Co.
H. C. Weber - surface rights

June 3

Wednesday

GREAT COVE
ALA.

Atlanta Route 2

J. E. Blackmon, owner (see map)

- see Iron Ore map
- good soft Mn. in abandoned
tunnel trending S 10 W top of
hill - rock dips 17° with tunnel
- exposed ore bearing section 3'
- in place ore makes 8' out
of 1 ft. - rock is chert &
clay in about equal proportion
- average ore content 20%
- tunnel 10-12' wide & 50 ft
long. - recovery of ore would

be hand-jacking 1st - tunnel
 about 5' high with some carved
 material on floor - ore has
 been shipped fairly recently. Jim
 or Ft. Payne street - owned by
 Mrs. Rogers of Goodden - in
 5' overburden at tunnel entrance -
 increasing to 5'.

Along north incandescent ls. - shaly
 beds said to be characteristic of lower
 Ft. Payne - beyond in sandstone (Black sh?)
 area of Ft. Payne carrying more in
 very much limited - tunnel through
 distance of 150' (partial pit pit
 to lower opening) - a pit 50' to
 east show some more.

Most of material removed from
 tunnel was carried upward to
 entrance. The dump carries both
 hard & soft ore & probably could
 be washed profitably - water would
 be 250' lower & half mile haul
 on easy grade.

Went on to west of tunnel - on pit
 barren.

$ \begin{array}{r} 100 \\ 50 \\ \hline 5000 \\ 3 \\ \hline 15,000 \text{ cu yds} \end{array} $	$ \begin{array}{r} 3000 \\ 1.5 \\ \hline 15000 \\ 3000 \\ \hline 45000 \end{array} $
at 1' 5" rate = 3000 cu yds	

1500 cu yds
 1500 cu yds - 10

$\begin{array}{r} 150 \\ 90 \\ \hline 13500 \\ 3 \\ \hline 40,500 \end{array}$	$\begin{array}{r} 1500 \text{ cu yds} \\ 27 \overline{) 40,500} \\ 27 \\ \hline 135 \\ 135 \\ \hline \end{array}$	$\begin{array}{r} 1500 \\ 1.5 \\ \hline 7500 \\ 1500 \\ \hline 22500 \end{array}$
--	---	---

40,500 cu yds
 22500 cu yds
 @ 115 noted = 450

4000 cu yds
 1500 cu yds
 1500 cu yds

+ labor for Δ = 225 tons core
 less on material = 200 tons core

Sec 21, T12, R. HE (near
 Sec 21, T12, R. HE (near
 Mr. Walker site - pit now filled with
 water. good hard blue ore (little) on dump
 + considerable nodular ore of only fair
 quality - some dull + earthy, some sandy.
 can make no estimate of remaining
 quantities - if any.

How many pits (to NE of it) are now
 deep gullies - old pits - mottled clay
 with iron + nodules of pyrite. If
 gray portion of clay were replaced by MA
 would have good supply of iron.
 Red clay in center. This mottled material
 single T. 12 - further along a drainage
 bank leading N10W over red (late Permian)
 on top + mottled material on shore.

[Ed. F. Emerson of Piedmont operated mine several years ago (5-8 yrs) - shipped several cars - pit 30' deep]

Either mottled material in seam. in River or in a weathering product of it - probably brown or it has a red brown - 'darker' 'Warren' clay - in dark clay 'shady' - cross section appears to be + general strike in E-W ±

Main vein also evidently followed to considerable depth in pit but is now filled with water.

Barren weathering of main pit in corner of slump but NW side shows mottled clay + with iron - evidently mined nearly full width of main pit = 50' ±

HDM. estimate 400 tons more ^{double}
- based on $200 \times 200 \times 20'$ @ ratio
1:50 -

To W.C. Pope place - 1 1/2 mi NE of Pleasant Gap + on E. Co - Main Pit (see sketch map) - up to main pit - co. + m also Fe - but separate - vein of min. with radiate structure - very promising locality
Have shipped 20-21 tons
HDM. estimate 30 tons more (conservative)

$50 \times 50 \times 10'$ deep = 1000 cu ft

- over hill to NE for 500' ± - good
floor over in 'sandy cut' & mostly
small pits & some larger very
large

June 4 - Thurs

WALNUT GROVE

J.B.

Met Mr Bynum at Walnut grove - on to
his mine now operating shaft
now 41' ± deep from Walnut bluffs and
end in 7-8 1/2' bed of solid pyroclastic deposit
15' ± to NW side of same thin same
yellow clay - hardly more than partings.
Now shipping ore to Tenn. Eastman
at Kingsport. One handled in small
bucket. 75 tons this year. Placed
in bin at Walnut grove before shipping
- over 40% Mn.

NW 1/4 SE 1/4 Sec 15, T 11, R 3 E

- Worked by 4 men

- one thickness same - in pocket - good -
shaped mass up to 8' (80,000 lb
cure)

- more shells about 40' - some on below
this level - in St. Payne street.

John H.

NW 1/4

To, Harriet Munn - Dec 22 - on
Bark & bark sand - recent mine - no
ore shipped yet - some clayed
shallow pits to bands soft pyroclastic

June 6

Sat

SWEETWATER

- 2 men in 45 km. underground 5 ton E -
stuck at south of rd near Vida - (South
Smith Track) - took a good deal of work
Bureau is doing a little prospecting
here for Locke & Michail - pits
being put down at several points
selected. 3 Crang. One uphill from
"mine" or down 15' E & only few
pieces of Mn. It is possible that all
of good ore is in the upper 8' in
material that is not true residual clay.
- 5 at Vida got together some ore
near top

To B.M. prospect - since last visit
no hole opened but ore in last visit
has been found. Drill by current
two holes to rock + now on thrust

- N18, E10 - 2 3/4 ending in 5' yellow
shale grading into marl - few
small lumps somewhere above

Dug 30' hole to water (+ rock?)
in 7 hrs ±

June 7

Sunday

Loc. Challepa Mesa (Wille Property)
- loc 5-6 miles (airline) due south of
Mountain City - in Shady, 1940

165 tons shipped by Wille, one ^{very} large ^{run} +
56 tons 2 now on ground. Wille now
prospecting with excavation + cement over
that some extent to cut back + plan
to test other limits when first run
Wille assistance from Bar. Means in
prospecting.

Our run 46 ft. run - mostly hard
moderate partonulans; some nodules are sandy.

On lower 10' of face in section of
red clay, yellow sand + brown clay. Wille
determined ratio of weight on ore led at 1-2
There is 15' or more of material above
ore zone + this has already caused some
difficulty through stamping. Selective
mining with shovel probably could keep up
a good rate but am inclined to question
1-2 ratio

Approximate figure 10' thickness (total) of
ore to be worked.



to the north end

150 x 80 x 10

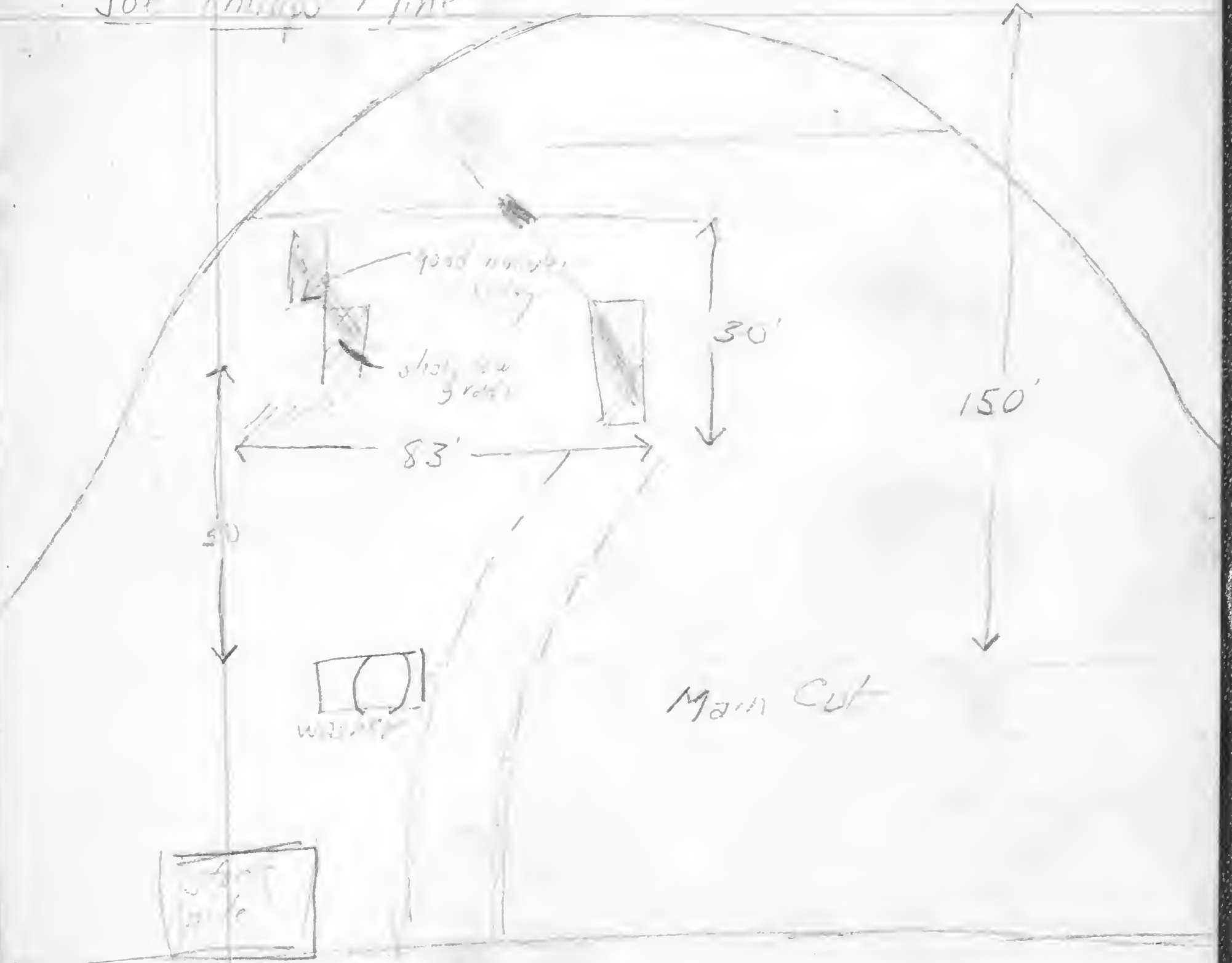
Joe Phillips Mine

N
↓



Joe Phillips Mine

N
↓



$$150 \times 80 \times 10 = 120,000 \text{ cu ft} = 4,450 \text{ cu yd}$$

$$= 450 \text{ cu yds @ } 1:10 \text{ ratio} = 675 \text{ tons concentrated}$$

With 750 tons ash

Miner 500 " ash

Main Cut - w
sign

Examined 11 cuts and in pit
lith ore in bottom of cut but none in
wall. Put at W end sand to have
found ore near bottom (20'±)

Spedden - MT
3 mo @ 350

On to creek - on a 6' flat (now steep)
- in some cropped (well layer)
- along stream 32' - from 160' above
main cut.

Recommend to Bur. for more

On 10 creek - out - 6' pit (brown clay)
- in case scraped - last layer
along address 82' - some 160' above
main cut.

Recommend to Ben (joint memo
of Eng & Bergman) - test hole on V
in hole on 25' center - some 100
apart - later down drill hole on
100' center in center of V.

✓ Lyva Mm

H. Comer Wolf has piece
for recovery from - "fine flake"
(Pawel, G.W. talks of "air separation")
- some of that hard one appears to
be in red surficial material - 6-8 thick
along with ss. boulders - one being also
100' th

On Creek/Eman in test pit
is N 65 E, 7/10 W - rounded - test
pit nearly in shade
only about 6' - deep?
? - with test syndrome?

[see memo: ref. - sample
given to Pierce]



June 8 Monday

Went Stead to Rd Mt Mam - additional
on being discovered E of Holt pit + trench &
+ at higher elevation than earlier on Cedar.
Boyd still in grading deposit + much still
running very inefficiently. Too much ore
is fed to log washer + gives us very poor
jigs. In jigs handling larger material
the sizing is very bad - gives smaller
than pea along with pieces 1" + in diameter.
The jig has little effect on material
- tailings can hardly be distinguished from
material entering from jig. [Company
can hire Specimen of M.T.T. for
period of 3 months @ \$350 per mo.
He claims he can get min. content
of tailings to 42%. Acc. to Stead
Boyd is showing material as high as
89% total Mn. of which half is probably
soft ore that cannot be recovered.

- draw E of Z - Clinton in place at 4'
- ore - clay (Tan) over Clinton in pit to E
- not much ore - little in form hard nodules

June 23

- Turn
To Purgatory Mt Area with Messrs.
Lee (W & B)

16 mi ±

Lv Mt. Bridge. 23753 - SW on US 11

Turn R at Ess. Sta 759

" L on 622 at 763

take R at fork of log cabin at 763.9

follow rd. over Sugarloaf, W. to

scene of Lee photo - 23769.

Deposit

1) entered an unknown hor. near
Sloan home - on Sloan
property (not exam. & geol.)

2) Old Burman prospect (S. town
rept) - ~~sent to the pyroclastic~~

3) Biggs NW. prospect seen
& studied.

Va. Min. Co. have min
rights on all three of some properties
marked sh. with outcrops on slope.
Wildcat Mt. shown slope - flatiron -
to NW.

Sloan Farm

Outcrop - as flat iron + Clinton
some red - along rd to N

Mass. sh N40E ±, 25-40 SE

with fine ls. at base

- on to NE side of Sloan farm. Sh. + Clinton

the fine Mass. sh. bank on to

saddle SE of Sloan farm - slope to

23785.3 - 1st Nat. Bldg. 54 on 05
91.0 - 1st Nat. Bldg. 54
23800.5 - 1st on 662?
23801.3 - 1st on 662

Trenton? 11415.75 SE just below saddle

See map for location of area between
Sugarloaf & Wildcat Mts.

Varian, Sugarloaf & Camp Mts.
probably capped by Clinch & Clinton (quartzite)

Trenton? NW SE, 80 SE just below saddle

See map for location of area between Sugarloaf & Wildcat Mts.

Garden, Sugarloaf & Camp Mts probably capped by Clinton & Clinton (judging from floor) - rilly in Mart. sh. with Trenton? below dipping steeply to SE - in profile Wildcat Mts looks like dips slope to NW - is an anticlinal valley? - no more seen except bits of brownish sand in Mart. sh. (Mr. Lee has excavated large good pyroclastic size 1/2 feet some time ago) No promise of any deposit here

June 24 - Wed

- 23808.7 - Mor. talus in weathered Dbs - middle of series of cuts in Dbs - [thin sh. bed comes in after passing N end of Panther. Mts. where good section Clinton is exposed N 10E, 80E var. Over this ± val bed in thick talus blanket the base of which is a sort of iron cap with possibly little Mn. stain. No ore here - either Fe or Mn

- get ideas on silvery ore in Va close to Va line (artificial - blast furn. prod)

3135 - mine

2120 W road

465. above

road = Buchanan #2

Biss Mt

$$\begin{array}{r} 10.1 \\ 8.7 \\ \hline 1.4 \end{array}$$

- No one has been shipped - the Mr.
has verbal agreement with
Burman of Eagle Rock Bank,
Eagle Rock, Va.

- No ore has been shipped - the Mn has verbal agreement with Buchanan of Eagle Rock Bank, Eagle Rock, Va.



It appears excellent grade - Xl. pyroclastic in mod hard, lumpy - & spongy with clay in center - 25 N 75 E, 25-30 N - 100 this type into well maybe slumps - in road pit a shaly clay with 3 nodular ore of low S.G. - a slightly silty clay down on the side of main pit. [min. more reported from creek bed]

- ore silty to soft to wash. (water would run off).

- 23810.1 on road at flat where sec. road turns off to second Smith Br

25.00
 22.20
 3.20

"Burman Prospect" (Stone)

- 22.20 at ford on Mill Creek
 - 25.40 " prospect

Excavation 20-35' above Sloan
 Cr. in R. bank - common Clinton

Burman Prospect" (Store)

- 2220 at ford on Mill Creek
- 2540 " prospect

Excavation 20-35' above Sloan Cr. on R. bank - unmin. Clinton ss in creek below pit & above prospect in creek

Below prospect N50E, 65SE.
Upstream N25 - N65E; 65-80°
In pit N45, 55SE.

Section all Clinton, possibly overturned - mostly ss. with var. amt of clay at prospect.

One or hard nodules, some exceeding 1' in diameter - very irregular in shape. Some are merely impreg ss. - few show shrunken cracks of pure oxide.

High dikes which are upstream would make proving up of large tonnage difficult due to narrowness of zone & steep sides of valley walls. Add. difficulty would be transporting ore down to road, thence to RR - about 3 tons of nodules piled up - there being no gravity but no high grade seen.

- One pit 25' into hill close to surface - 2nd pit about 12' x 5' x 5' - about 10' above Mill - bigest nodules

in fair soft clay (crypt)

- now plan 612 on road
continues SW to gravel rd - turn R
at 23815.6

June 25 - Then - ^{to see J.D. Holl & Va. Iron Co. Co.}
Pomona, Va. with NKA.
Chapman, W.C. }
Garrett, Frank W. } Lalen - has been

9 mi. from Blacksburg on rd to Newport
(Va. 8)

Wells estimates 200 needed for property
2 types ore - soft - 70% MnO₂
moderate - 40% Mn
- working now, raised.
(staff)

- work done 1 yr. ± ago & some
ore shipped to Newport, Tenn

Lv. Blacksburg 896.1

Crest Brush Mt. 901.8

Enter Giles Co 904.1 (on Gap Mt)

Newport 905.7

Turn off to prop #2 906.1

See top of hill 906.4

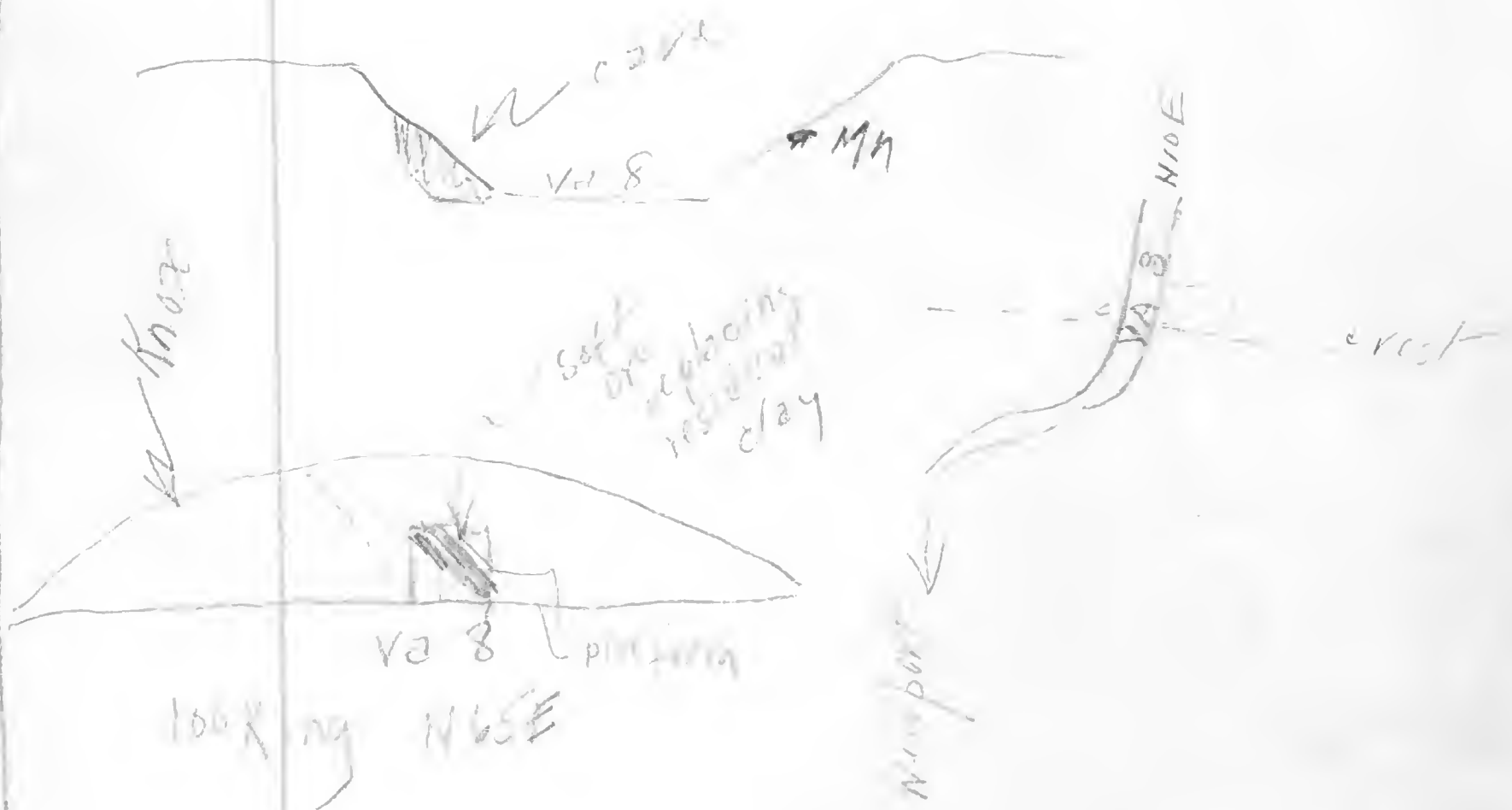
(Va. #8)

Propert from which ore was shipped
recently (No 1) is on main road in ditch
7 mi (by rd) west of Newport. Main
opening (now closed) on NE side of rd but very

on also spotted - little far in SW creek bed
 125' N of Prospect Knox outcrop along rd
 N64E, 53SE - good section going to
 buff dolomite with some black chert
 - section exp for 1200 ft above 100' of
 crest

Loc (det?) only 25' N of prospect
 just corner pyrite & thin younger
 than Beekmantown?

Dip appears to be unimpaired in
 that Mn. impreg. - entire bed. If
 quality is good (i.e. of such material
 as may now be seen in bank &
 on drawings) zone would be easy
 to prospect & easy to work. Good
 cut at crest in 20' high with base
 of cut 30' wide - under of cut 40'





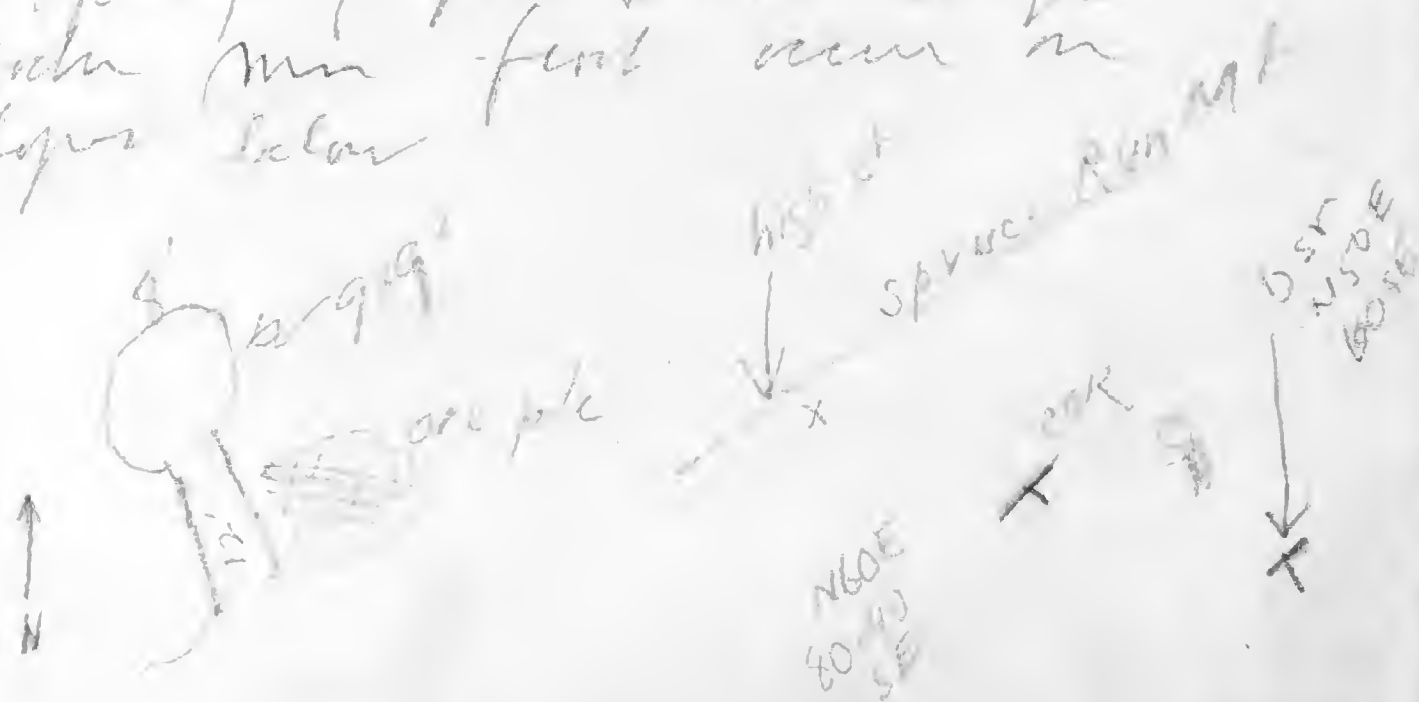
only 8' but now exposed - some chert
in clay - but if hard rock in car
show contact of clay & chert to
be irregular - some of clay will

only 8" bed now exposed - some chert
in clay - dirt of hand now in cut
show contact of clay & chert to
be irregular - some of clay well
laminated.

In exposure across rd main
clay at least 1' thick [S. 5 feet clay
in road 3' zone in main cut before
slump]

Resid clay in road gutter 250'
South of main cut on opp side road
no good exposure to soil - much
chert floor

To SW along slope of mt. (Spruce Run?)
Garrett opened pit 9 x 9 x 8' deep
in talus of chert (Knox) + clay & hard
mn. masses up to 1 1/2' in diameter
Pile ext. at more than a ton ton
at opening of pit & other large
blocks mn. found occur on
slopes below



still
high

✓ Put line N30W of OSK cross
Look at prospect in top of
P. formation

COK - 60' NW of pit - line N60E
80SE to S - var. - gyp. Haux - cherty
general weathering

Cock 1-4 { 1, 2 from of COK - line - OSK.
3 - looking E toward gap in gyp NW
4 - " NE up valley

2755 ocean - prospect 25' higher
- 2nd prospect is 16 mi. SW of one
on main rd. & at elev. 300-350'
higher than turn off near Newport
- much higher than line No 1
(about 200-250' higher, although
no. 1 is on crest)

Plot 5 - line No 1

June 26 - Fri.
Huddle, Jr. says but father still have
interest in Buckhorn (Harrison) - know
of no trace to Harrison
- have examined Loh report. New geological
funding letter & better map for fossils

1) Wytheville road outcrops - good m. -
- spongy & breccia ore - in road
cut for 45' - churn drilled
to depth 16' - became harder to
bottom - 10' overburden - to go
below rd & drive tunnel under rd
& put down shaft to meet it.

2) Wytheville Road Mine - have more
than 1 car (possibly 2 counting near
float) - aim to start shipping
car per day 1st week in July
- must ship car & half per day
to satisfy Union ore - they only
want coarse than ore and
act under it with high grade
to go extra - Union pays 50¢
unit.

Out on site of old pit - shipped
18-20 cars 30 yrs ago - up
to have shipped 3 cars during
last war (Barnhart was
representative of W. & W. - worked
18 mos. - before killed). Now
owned by Hurdle & Shaffer (lady
has 1/3 - Mrs. Wohlford - bit added
30 yrs - have forgot name on
her share) - 250' ± of ore
known here.

Cwp N70E, 40°S - dipping 20

- not much of a red - some seams
pure red clay 1/5 bedding - 10's
exp - put 25-30' deep - overlaid 10's
- have put down shaft 15' below
floor of pit - all in man

- 1/16 "pyroclastic" stuff on
surface - hard impure, ss below
(run 12-15 g analysis) - + bit
on at depth.

✓ Up on ridge over crest at
pt. SW of Tunnel. J. lost - Mn. ss
- will run 15-18% Mn. to Huddle
- is c. best of it will

June 27

Sat

To Little Valley with Oscar Wille; unusual
- prospect in road on which
additional work has been done.
Big man several ft thick, most
exposed but apparently does not
extend into bank. Small
amounts good in sandy part of
down road. The old bearing sand
like fine in grain & may
be Clinton. Strike the road to
N 45 E - on below it same &
work - deep high

Up Little Tumbling in succeeded
 & back over Don - the chert
 comes over on some old workings
 on up over heavy Don if look
 good we come in that judging
 float - good on Don chert
 but projected - all old pits -
 Don well.

Returned to creek & chert
 plateau on sand that over Don
 to top chert - old pits in
 clay with nodular chert - may
 run 45 to 75 - no real high grade
 - in upper 10' or so in general
 estimated yds from 1.5
 - in yellow clay that would work
 easily - once projected at
 least 50 to 75

$$\begin{array}{r} 75 \\ 50 \\ \hline 375000' = \end{array} \quad \begin{array}{r} 131 \\ 27 \overline{) 375000} \\ \underline{27} \\ 105 \\ \underline{81} \\ 24 \end{array}$$

$$= 1400 \text{ cu yds @ } 1.5 \text{ ratio} = 280$$

$$\begin{array}{r} 1.5 \\ \hline 1400 \\ 280 \\ \hline 420 \text{ ton} \\ \text{me} \\ \text{is right} \end{array}$$

T

The ore here is inferior to that on
rd (Bentley?) but it could be mined
fairly easily - hand coked & carried
to creek on stone boat

5 men @ 2.45 = \$12.00

material -

5
17 00

transportation

material -

5.00

22 00

- could probably produce two tons
per day with above crew. Could
probably separate the product from dirt
easily & truck to RR at Bradford.

June 29 - Mon

With Arms, J.K. Dooley, & Cockrell, W.C.;
last worked on Backlund - Hanson

Property - when excavations were
made there - says a decent
property line $3\frac{1}{2}$ mi ± to E.

- Coll. sack from jig product for Bureau
- " spec high grade - pyrol. & coal for
Arms property - m. coal for
note relation from m. to bedrock, etc.

✓ Took sample from jig

do not use
100% uncertain

Bag House
1941
Carnegie State

Chemical Analysis
S. and N. dist
1936
1936
1.89 1.64

mm	3.4		
Fe	64.	62.80	59.40
SiO ₂	2.15	3.04	3.76
Al ₂ O ₃	1.13		
Sum	.03		
P.	.15	.12	.078
S	.17		
mg	.093		

do not use
without permission

Wynock 1936

SiO ₂	17.60	11.12	10.88
Fe	26.40	28.10	22.0
mm	18.50	22.35	27.71
O	.06	.06	.04

Dismal Cr Area

Clinton E-W, 29 S - corner creek
- on up to just - by Clinton nodules
are - Mn. 34 ± Fe 5 ± SiO₂ 20-25 ±
- very low P .03 ±, cannot
ship alone. No bedrock struck
- may be mostly ⊕ of clay + ss
on just are in place

XI

#2 - old Diamond

#3 - Pearse Thompson Br.

Joe Taylor - opened in 1926 -
leased to Frank Dunn
& Stickley & John Stafford
- shipped 19 cars 1926 - 29

- Taylor ran 18 - 20 cars
1929 - 34

Taylor 12-15 same time
(all 4 other cars)

- Taylor sold to Cremat July 1943

Biggs took leave in Jan 1942
from DA Cremat

#3 Prospect - Pearse Thompson hollow
- flat ore being traced up
hill - looks better than typ
modular Clinton ore - but
close pt. of Clinton - possibly from
younger horizon?

- RR out Sorter

Lloyd Banning - S.D.
Rush Spedden - M.I.T.

July 13 - Monday

150 drills now
working

Ten State - bid on floor track
to depth 200' - to spot away on
- issued the million dollars for
drilling $10/0\%$ $10/0\%$ $10/0\%$ - careful study
of cutting - might reduce study
estimate & eliminate some acreage.
Only other possibility in geophysical
work

Dist. 1 - N.D, S.D, Neb Ia.
E.Y. Dougherty, Rapid City, S.D

2 Minn Wis Mich
Barrett, Minn. Sta. B. N.

{ 3 Kan Okla Mo
Macmillan, Rich, Mo

4 Ill, Ind, Ky
— ?

5 N. Mexico
Charles Johnson, Santa Fe.

6 Tex
Needham, Austin

7 La Ark
Jack Thorne, Little Rock

8 Alaska. Robert S. Sanford 58

17,000,000 from Bureau known USA
5,000,000 to be used this year

Recommendation

1) Rush a

(gravimeter)

2) Tri-State Zn. - geophysical, with present
drilling later - (Frost)

3) OKla. iron - tonnage unknown 3 1/2 - 5 million tons
see Dot

509,1

Beckman - USGS - water Res.

Zimmerly, S.R. - Civ. Eng. well

C. L. Sudder, Div. Eng.

Bonus Clementer } 13 mo from
Robert O'Meara } Tennessee

Garland Gott

1 Mo G.S. - to USGS

for Rush Cr

- has started cutting - for year

Groskopf

July 14 - Tues Rolla B.M. off

Area to be recommended

Groszkopf

July 14 - Tues Rolla B.M. Off

Area to be recommended

USGS
Bull. 853 ✓

Wis. Surv.
Bull. 14

Vol. IX
Mo. G. S. ✓

1) Rush Creek, Marion Co., Ark.

2) Tri-state

3) Wisconsin

4) SE Mo

5) Magdalena

6) Cent Dist, Silver City,
Hampshire

7) Black Hill

8) " "

9) J.H.V. River

Zinc +
lead

Lead

1) Seward, Alaska

Copper

2) Lordsburg, N. Mex

Copper

3) Red Butte, N. Mex.

Copper

Burns Mts. near Tyrone N. Mo. -
possible copper + small Zinc lead
Jolt Bayard - med. sized Zn

West. & Jeff Co. Mo. - Carb. Zn.

- Gravel has Md in file of Mo. G.S.
on Zn of Wash. Co - Myerburg
has worked for Amer. Zn Co and
mine in Jeff. Co.

July 20 Monday

- Continuing in Ark. - possibly
small production - estimate

1,410,000 tons ferrous-grade Mn needed
this year

Reclamation wants get large manganese
area as soon as possible - 70m
and commercial iron - will have
to be reflowed (5m or more) - it
no longer works till 1973

Mn. Co. Mo.

obtained at 14 m - all high P.
specimens - with high silica

2-15-20

Dirt. probably will not exceed 10 cans per year.
- could sell 200 or more cans

Ditch probably will not need 10 car per year
- could well see or more cars
of high price on the Birmingham
& New City. Other centers will not take
high price on the same superior
own features about max. amt.

July 21

Tues Polk Co, Ark

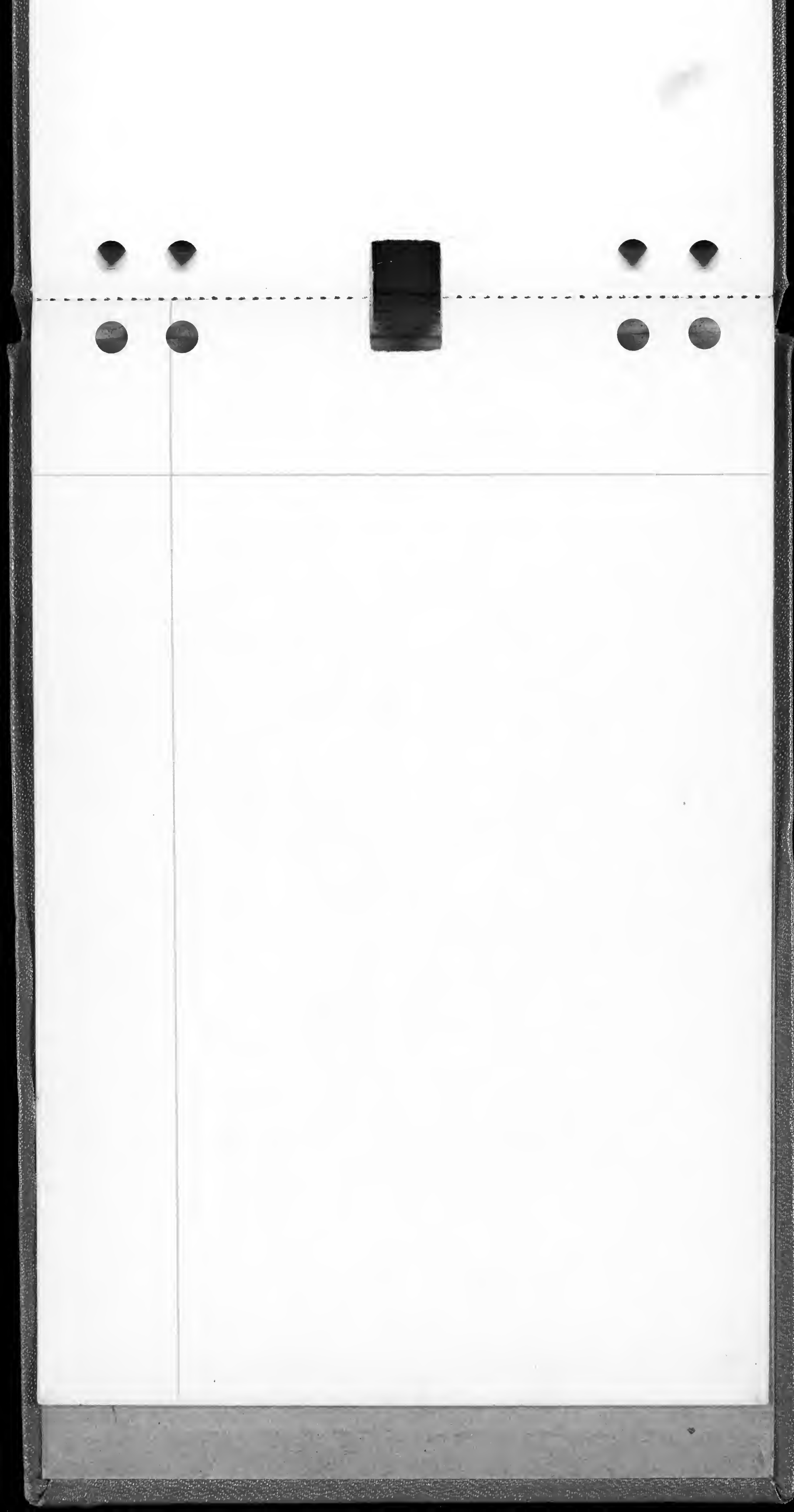
Hot Springs to W 50 mi. ± to
Turrell - then 18 mi. W. on highway
and then on to North + over
Company road 4 mi. ± W into
interdenal valley in Ark. novaculite
- valley trends N 75 W ± - but on
in lower portion - short distance
west of W. Ark. column

In 1 mi. climbed hill to N, seeing hills
at higher is up to 4000 ft. or more. Then on
here during last year + 3 fine additional
very recently. On a small mostly 11 ft
bedding. Several other parts indicate
stratified occurrence of small units.
Very little good sandstone seen here.

Aside from sandstone on a hill
high grade above which there is
evident some to 100 ft. 500
possible in development to give
some tonnage anywhere - will
probably. Transformation appears
great. Some very high. Some
washed present (shale rock?)

On left side of valley some of best
manganese ore but below a sort of
iron caps

George A. Holt, Marshall Ark
Clarity } Dallas, Tex
MacDonald }



US684209 - John S car

